No. & Pricrity	PROJECT	OPERATIONAL REQUIREMENT	MBSD/ORD SUPPORT
<u>BH-1</u> (A)*	Psychological Assessments of Individual Applicants	Improve selection procedures.	 Establish data base. Examine alternate methods.
BH-2 (B)	Group Behavioral Studies (Medical Dept.)	Improve overall evaluations.	i. Identify critical group factor
BH-3 (B)	Familial and Social Interactions and Studies	Continuous assessments.	1. Establish post-dictive da base on comparable individuals to test in predictive way.
<u>вн-4</u> (С)	Personnel Training & Evaluation a. Pilot integration with vehicle & components. b. Personal protective equipment. c. Survival; self-medical care. d. Escape, evasion & resistance.	Pilot performance, safety & survivability.	a. Human Factors study. b c. Training techniques. d. Training and research in resistance to persuasion techniques.
<u>超-5</u> (A)	Psychological factors in Special Missions	Pilot effectiveness and integrity.	1. Utilization of data base from BH-1. 2. Training & performance measures 3. Attitude training & assessment.
BH-6 (B)	Personal & Familial Factors in Dislocations.	Alleviation of economic and career problems.	1. Utilization of data base of BH-3.

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Priority	PROJECT	OPERATIONAL REQUIREMENT	MBSD/ORD SUPPORT
<u>ва</u> (А)	Medical Criteria for Selection and Maintenance	Flying fitness and survivability.	Encourage the combination of all data, medical and other, under one cover. Establish computer coding and analysis of this data as a procedure in order to develop cross correlations.
(B)	Psychophysiological Factors in Saress Tolerance	Pilot performance under all mission conditions.	1. Same as BM-1. 2. Develop instrumentation to monitor pilot status on flyand-try basis. 3. Encourage the development of a simulator.
BM-3 (A)	Measurable Indices of Mission Stress and Fatigue	Crew control and maintenance.	Pre- and post-flight studies to determine operational, medical, and physiological status, and establish trends if any.
<u>BM-4</u> (B)	Mission Metabolic Costs and Mutritional Requirements	Crew control and maintenance.	1. Review accumulated data to establish endurance norms un der various flight conditions. 2. Institute simulation studic to define operational limits re auch data does not exist.
<u>BM -5</u> (B)	Diurnal Biorhythm Alteration	24-hour mission slert. Crew control and maintenance.	Develop study program to determine the relationship, if any, of high level performance capability to circadian effects. Simulator studies.

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No. & Priority	PROJECT.	OPERATIONAL REQUIREMENT	MBSD/ORD SUPPORT
28-6 (3-)	Thermoregulatory System Function and Heat Adaption	Performance during emergency heat stresses in flight.	1. Define the thermal environment under different flight conditions. 2. Determine tolerance norms. 3. Examine individual tolerance against the background of tolerance norms.
#L.7 (b)	In-flight Pulmonary Function	Index of pilot status during mission	Bavelop open-eircuit spireme techniques which are competable with the environmental support system. Perform detailed pulmonar function studies.
<u>196-8</u> (6)	Acoustic Trauma and Auditory Function	Assurate communications and future flying fitness.	1. Establish monitoring facilities to determine time-intensity exposure. 2. Develop sudiometry program to relate sensory decrement with accumulated exposure. Escovery time.
<u>34-9</u> (A)	Visual and Vestibular Function	Intra- and extravehicular orienta- tion. Hight vision training.	Besign or redesign attitude indicators so that the pilot may read them during refueling eparations.
79 <u>1-10</u> (9)	Toxicology of Artificial Environments	Elimination of liquid/gaseous contaminants.	1. Environmental sampling program. 2. Edentify and measure the esocentration of contaminants. 3. Establish safety factors.

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No. & Prioricy	PROJECT	OPERATIONAL REQUIREMENT	MBSD/ORD SUPPORT
BT 6 (A)	Improved Life Support System Crew Protective Assembly a. helmet sub-system b. pneumatic s/s c. emergency s/s	Omni-environmental protection max protection and visibility oxygenation, pressurization, and ventilation oxygenation, pressurization and ventilation on ejection	1. Establish training program. 2. Consultative contribution only.
BT 7 (A)	Laproved Life Support System Crew Survival Assembly a. parachute s/s b. seat pack s/s c. locator & air smatch s/s	Pilot recovery and integrity safe descent & detection survival, escape and evasion recovery in denied areas.	Review design of seat pack for purposes of vol and wt reduction and determination of adequacy. Otherwise no contribution. Consultative contribution only.
BT 8 (B)	crew Training & Indoctrination a. survival b. escape and evasion c. project security	Pilot recovery and integrity	1. Review drug use, otherwise no contribution. 2. Training methods.
25X1 (A)		Mission critical factor analysis. Accident snalysis.	25X1
BT-1)	Aircrew Control and Conditioning Center	Optimal mission fitness.	Establish optimal criteria for mission fitness. Simulator studies. System-Function analysis

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No. & Tiority	PROJECT	OPERATIONAL REQUIREMENT	MBSD/ORD SUPPORT
BT :1 (C)	Mission Ground Life Support E uipment a. FPS & 2 test s/s b. Pre-breathing s/s c. Portable 02 & vent s/s d. Vun-transport s/s e. Van-maintenance s/s f. Van physiol. chamber s/s g. Blomed. monitoring	Periodic physiological training.	1. Training program. 1) Decompression 2) Explosive compression 3) Warning systems, if needed. 2. Examine new parameters of
BT 12 (C)	Crash Medical E uipment a. surface operations b. airborne operations	Pilot location, medical aid and recovery	monitoring (g). 1. Passive locators transceivers. 2. No contribution.

^{* (}A), (B), and (C) indicate priority problem areas in descending order.